

What is claimed as new and desired to be protected by Letters Patent is set forth in the appended claims:

1. A compact smoking oven, comprising a [box-shaped] housing having a peripheral wall comprising [composed of] two wall portions spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings and an outer wall portion; a container for accommodating wooden chips and having at least one wall provided with a plurality of openings; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke; and means for cooling said housing, said housing having an upper compartment separated from an interior of said housing by an upper wall, said cooling means being located in said upper compartment and directing cool air toward said upper wall so as to cool said upper wall.

2. A compact smoking oven as defined in claim 1, wherein said heating means include a heater located underneath said container with wooden chips so as to heat a bottom of said container and thereby to heat the wooden chips.

3. A compact smoking oven as defined in claim 2, wherein said heater is formed as an electric heater.

D17  
4. A compact smoking oven as defined in claim 1; [and] further comprising [product supporting means; and] tray means located above said container and below said [product supporting means] means for holding said food product so as to collect fat and deflect smoke exiting said openings of said container toward said peripheral wall, said tray means having a bottom portion sloped toward a door of said oven.

5. A compact smoking oven, comprising a [box-shaped] housing having a peripheral wall composed of two wall portions spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings and an outer wall portion; a container for accommodating wooden chips and having at least one wall

provided with a plurality of openings; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; and food product supporting means including two discs rotatable about a horizontal axis and a plurality of rods extending substantially horizontally and inserted in said discs.

6. A compact smoking oven as defined in claim 5, wherein one of said discs has a plurality of throughgoing openings for inserting one end of said rods, while the other of said discs has a plurality of closeable and openable slots for inserting the other end of said rods.

7. A compact smoking oven as defined in claim 5, wherein said rods are additionally turnable about their axes; and further comprising means for additionally turning said rods about said axes.

8. A compact smoking oven as defined in claim 7, wherein said means for turning said rods about their axes including at least one flywheel connected with each rod and formed so that when said discs rotate and rotate all said rods, each of said rods is rotated about its axis in an opposite direction under the action of said flywheel tending to assume a substantially vertical position.

9. A compact smoking oven, comprising a [box-shaped] housing having a peripheral wall composed of two wall portions spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings and an outer wall portion; a container for accommodating wooden chips and having at least one wall provided with a plurality of openings; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke; an openable hollow door which

closes and opens the interior of said housing; and cooling means for cooling air and supplying it into an interior of said hollow door so as to cool said door and to increase tightness of an interior of said housing to prevent smoke escape from said housing.

10. A compact smoking oven, comprising a [box-shaped] housing having a peripheral wall composed of two wall portions spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings and an outer wall portion; a container for accommodating wooden chips and having at least one wall provided with a plurality of openings; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; and food product supporting means located in said housing and including at least one [support provided with at least two rotatable discs having different axes of rotation and] rotatable disc having a plurality of

hooks for suspending the food product.

11. A compact smoking oven, comprising a [box-shaped] housing having a peripheral wall composed of two wall portions spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings and an outer wall portion; a container for accommodating wooden chips and having at least one wall provided with a plurality of openings; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke; said heating means including a gas heater, a metal plate [heater] heated by said gas heater and located above said gas heater and underneath said container; and a flame distributor located between said gas heater and said metal plate and having a plurality of perforations so as to distribute and direct gas flame to said metal plate in a distributed fashion.

12. A compact smoking oven, comprising a [box-shaped] housing having a peripheral wall composed of two wall portions spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings and an outer wall portion; a container for accommodating wooden chips and having at least one wall provided with a plurality of openings; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; and food product supporting means including at least one rod rotatable about a horizontal axis and having a support displaceable in an axial direction for removal of the food product, said food product supporting means is entirely removable from said compact smoking oven without disassembly for loading and unloading said food product.

13. A compact smoking oven, comprising a [box-shaped]

housing having a peripheral wall composed of two wall portions spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings and an outer wall portion; a container for accommodating wooden chips and having at least one wall provided with a plurality of openings; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; food product supporting means including [a] at least one grate composed of at least two portions movable between a position in which said [grates] portions are located close to one another so as to enclose a food product therebetween, and an open position in which said grate portions are moved, two discs rotatable about a horizontal axis with [on] at least one of said discs displaceable in an axial direction; and [a] at least one turnable rod located between said rotatable discs and supporting said grate, said food product supporting means is entirely removable from said compact smoking oven



without disassembly for loading and unloading said food product.

14. {A compact smoking oven, comprising a box-shaped housing having a peripheral wall composed of two wall portions spaced from one another and } A compact smoking oven, comprising a [box-shaped] housing having a peripheral wall composed of two wall portions spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings and an outer wall portion; a container for accommodating wooden chips and having at least one wall provided with a plurality of openings; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke; a door adapted to close and to open said housing; and food product supporting means connected with said door so that when said door opens, said food product supporting means are

located outside of said housing for loading and unloading said food product means.

26. A rotatable food support for use in a compact smoking oven, said food support comprising:

a first rotatable disc, said first disc having an outer surface, an inner surface and an axis;


a second rotatable disc, said second rotatable disc having an outer surface, an inner surface and an axis;

a plurality of rods, said rods being rotatably mounted on said first rotatable disc and said second rotatable disc and being spaced apart in a circumferential direction, each of said plurality of rods having an axis, a first end and a second end, wherein said axis of said first rotatable disc is aligned with said axis of said second rotatable disc; wherein said first end of each of said rods is inserted through an opening in said first rotatable disc and is turnably secured within said first rotatable disc; wherein said second end of each of said rods is inserted through a corresponding opening in said second rotatable disc; and wherein said discs and said rods are configured so as to allow said rods to rotate around their axes while said discs are rotated around said axes of said discs.

27. A rotatable food support for use in a compact smoking oven in accordance with Claim 26, wherein said first end of each of said rods is turnably secured within said first rotatable disc by a rotatable flap, said flap being pivotally mounted on said first rotatable disc

28. A rotatable food support for use in a compact smoking oven in accordance with Claim 26, wherein each of said rods further comprises a flywheel, said flywheel and each of said rods being configured to force the rotation of each of said rods around its axis during the rotation of said discs.

29. A rotatable food support in combination with a compact smoking oven, comprising:  
a compact smoking oven;  
at least one rod for supporting a food product to be smoked in said compact smoking oven, said rod being rotatably mounted within said compact oven, said rod having an axis and being rotatable about said axis;  
at least one rotatable disc, said disc being detachably connected to said rod, so as to move said disc along said rod in the axial direction and so as to remove said food



product from said rod; wherein said rod is displaced between an interior wall of said compact oven and said rotatable disc, and wherein said rod and said disc are detachably mounted within said compact smoking oven so as to allow said rotatable food support to be removable from said compact smoking oven without disassembly for loading and unloading of said food product.

30. A rotatable food support in combination with a compact smoking oven in accordance with Claim 29, further comprising a grate for supporting said food product; said grate being removably attached to said rotatable disc and being configured to rotate together with said disc.

947  
31. A rotatable food support in combination with a compact smoking oven in accordance with Claim 29, further comprising at least two rotatable discs, wherein said at least one rod being displaced between said two rotatable discs and wherein at least one of said two rotatable discs is detachably connected to said rod, so as to move said disc along said rod in the axial direction and so as to remove said food product from said rod.

32 A rotatable food support in combination with a compact smoking oven, comprising:

a compact smoking oven:

at least one grate for supporting a food product to be smoked in said compact smoking oven, said grate being rotatably mounted on at least one rod located within said compact oven, said rod having an axis and being rotatable about said axis:

at least two rotatable discs, said discs being detachably connected to said grate and said rod, at least one of said discs being movable along said rod in the axial direction and so as to allow removal of said food product from said grate; wherein said grate is displaced between said rotatable discs, and wherein said discs are detachably mounted within said compact smoking oven so as to allow said rotatable food support to be removable from said compact smoking oven without disassembly for loading and unloading of said food product.

33 A rotatable food support in combination with a compact smoking oven, comprising:

a compact smoking oven:

at least one grate for supporting a food product to be

smoked in said compact smoking oven, said grate being rotatably mounted on at least one rod located within said compact oven, said rod having an axis and being rotatable about said axis; said grate being composed of at least two portions movable between a position in which said portions are located close to one another so as to enclose a food product therebetween, and an open position in which said grate portions are moved apart so as to load or unload said food product

34. A compact smoking oven in accordance with claim 5, wherein said food product supporting means is entirely removable from said compact smoking oven without disassembly for loading and unloading of said food product.